**Review articles**

An integrative and functional framework for the study of animal emotion and mood 2895
M. Mendl, O. H. P. Burman & E. S. Paul

Commentaries

Affective consciousness in animals: perspectives on dimensional and primary process emotion approaches 2905
J. Panksepp

Comments and invited replies

On the number of sons born and shorter lifespan in historical Sami mothers 2909
S. Helle, V. Lummaa & J. Jokela

Reply to Helle et al. 2913
D. A. Casanova, E. Lindqvist & B. Wallace

Research articles

Intraspecific genetic variation and competition interact to influence niche expansion 2915
D. Agashe & D. I. Bolnick

Host–symbiont recombination versus natural selection in the response of coral–dinoflagellate symbioses to environmental disturbance 2925

Atypical gaze patterns in children and adults with autism spectrum disorders dissociated from developmental changes in gaze behaviour 2935

Viability selection prior to trait expression is an essential component of natural selection 2945
J. P. Molinà & J. K. Kelly

Quantitative measures of sexual selection reveal no evidence for sex-role reversal in a sea spider with prolonged paternal care 2951
F. S. Barreto & J. C. Avise

Floral colour versus phylogeny in structuring subalpine flowering communities 2957
J. R. McEwen & J. C. Vamosi

The argonaut shell: gas-mediated buoyancy control in a pelagic octopus 2967
J. K. Finn & M. D. Norman

The Thatcher illusion in humans and monkeys 2973
C. D. Dahl, N. K. Logothetis, H. H. Bülthoff & C. Wallraven

Testing the heterospecific attraction hypothesis with time-series data on species co-occurrence 2983
E. Sebastián-González, J. A. Sánchez-Zapata, F. Botella & O. Ovaskainen

Signal diffusion and the mitigation of social exploitation in pneumococcal competence signalling 2991
J. Teng, B. A. Evans & D. E. Rosen

Evidence for competition between carnivorous plants and spiders 3001

Male-specific (Z)-9-tricosene stimulates female mating behaviour in the spider Pholcus beijingensis 3009
Y.-H. Xiao, J.-X. Zhang & S.-Q. Li

Upside-down spiders build upside-down orb webs: web asymmetry, spider orientation and running speed in Cyclia 3019
K. Nakata & S. Zischke

Contest outcome in a territorial butterfly: the role of motivation 3027
M. Bergman, M. Olofsson & C. Wiklund

Less is more: density influences the development of behavioural life skills in trout 3035
S. Brockmark, B. Adriaenssens & J. J. Johnsson

Experimental evidence for limited vocal recognition in a wild primate: implications for the social complexity hypothesis 3045
T. J. Bergman